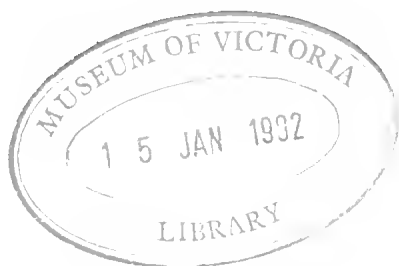


# A BIBLIOGRAPHY AND INDEX TO THE JOURNAL OF THE ROYAL SOCIETY OF WESTERN AUSTRALIA

VOLUMES 1 - 70

by A Bougher & V Semeniuk



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## Foreword

*Note from the President.* The publication of a bibliography and index of the Journal of the Royal Society of Western Australia marks an important step in scientific publications in Western Australia. For the first time we have a full listing of all papers published from the inception of the Society's Journal in 1915 until 1988. In addition to being a most useful tool for scientists researching into aspects of the natural history of the State, this bibliography is most important in documenting the progress of science in Western Australia over this period. While the last decade or so has seen a great explosion in scientific journals around the world, for many years the Journal of the Royal Society was the main vehicle for publishing the results of Western Australian scientific endeavours. As such, the analysis of the types of papers published in the Journal and recorded in this bibliography and index provides a striking insight into the changing nature of scientific research in Western Australia during this century.

Another major step that is being taken with the publication of this bibliography is a change in format of the Journal, with an increase to A4 size. This reflects a trend that has been occurring in journal publications worldwide over the last five years. Advantages will be seen in a larger font size as well as a larger page size, a much overdue change. It is interesting to note that this increase in page size that Council of the Royal Society has initiated continues a trend that has occurred throughout the life of the Journal. At its inception in 1915, the page area of the Journal was 260 cm<sup>2</sup>. By 1940 it had increased to 350 cm<sup>2</sup> and then to 420 cm<sup>2</sup> by the early 1960s. A slight increase to 440 cm<sup>2</sup> by the 1980s heralds the major increase to 621 cm<sup>2</sup> found in this bibliography and all subsequent publications. The next publication to make full use of the new format will be the Proceedings of the Leeuwin Current Symposium held in March 1991.

Thanks are due to the current editor, Wallace Cowling, for seeing through this format change, and the Government Printer of Western Australia, Mr Garry Duffield, for his continued support and help with this transition. Finally, I would like to commend Anthony Bougher and Vic Semeniuk for their noble effort in producing such a worthwhile publication for the Society, and Ian Abbott (Honorary Editor 1987-1990) for his encouragement and support of the project.

*Ken McNamara, President,  
Royal Society of Western Australia, 1991-92*

*Note from the Honorary Editor.* It is appropriate that the first issue of the Journal of the Royal Society of Western Australia in the new A4 format is a summary of the first 73 years of the Journal's existence. This Bibliography and Index to Volumes 1-70 provides an invaluable and lasting record of the natural sciences in Western Australia since 1915. It will remain an important primary source of references for students, teachers and researchers for many years. The information recorded in the Bibliography will interest the international community of scholars who will benefit from this record of scientific advances in Western Australia. The natural history of Western Australia shares many similarities with other parts of the world, and of course there are many startling contrasts that are of international importance.

The Journal of the Royal Society of Western Australia remains the only journal that covers all aspects of the natural and physical sciences as well as anthropology and archaeology in this State. Although not the sole purpose of the Journal, publication of articles of intense local interest remains an important and essential function. Today, many national and international journals will not accept for publication papers that are viewed as having only local content, even if the information is potentially important to scientists elsewhere in Australia or overseas.

The Journal has also developed a tradition of integrating knowledge from entire ecosystems, such as the Rottnest Island issue (Volume 66, Parts 1 & 2, 1983), the Banksia Woodlands Symposium (Volume 71, Part 4, 1989), and the forthcoming issue on the Leeuwin Current Symposium (which will occupy all of Volume 74, 1991). The integration of knowledge from several scientific disciplines in the Journal is well demonstrated in this Bibliography and Index to Volumes 1-70.

Throughout most of its history, and especially since Volume 40 in 1957, the Journal has been published on a calendar year basis with one volume per year. This pattern was interrupted in the 1980s due to difficulties in publication that are now resolved. The Government Printer has agreed to allow the Journal to "catch up" the necessary parts to publish Volume 75 in the calendar year 1992. For the benefit of librarians and authors, future Volumes of the Journal will be identified by month as well as Part, with the target months of publication as follows:

- Part 1 (March)
- Part 2 (June)
- Part 3 (September)
- Part 4 (December)

The Journal is one of the main avenues by which the Royal Society of Western Australia fulfils its stated objective to "promote and assist in the advancement of science" (Constitution and Rules and Regulations, J Roy Soc WA 59:59-64, 1976). To this end, from Volume 75 the Journal will provide a forum for scientific debate through a new column "Letters to the Editor" and will attempt to improve communication among all scientific disciplines through a new section entitled "Recent Advances in Science in Western Australia." The Honorary Editor and the Publications Committee invite members and non-members to submit short (2-3 sentence) summaries of highly significant recent papers by Western Australian scientists, or others writing about Western Australia, for consideration of publication in this section. Please forward your suggestions to the Honorary Editor, or a member of the Publications Committee: Dr S D Hopper (Life Sciences), Dr A E Cockbain (Earth Sciences), and Assoc Prof J Webb (Physical Sciences).

This Bibliography and Index to Volumes 1-70 marks the beginning of many changes in the Journal of the Royal Society of Western Australia. I hope the changes are seen as positive and necessary to the majority of members and library subscribers, and that the Journal will take on new significance to the growing number of Western Australian scientists who view the integration of knowledge across disciplines as being particularly important.

*Wallace Cowling, Honorary Editor,  
Royal Society of Western Australia*

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## A bibliography and index to the Journal of the Royal Society of Western Australia Volumes 1-70

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### Introduction

In 1987, the Honorary Editor of the Royal Society of Western Australia, Dr I Abbott, commissioned us to prepare a bibliography of the Journal of the Royal Society of Western Australia (hereinafter referred to as the Journal). The Journal spans more than 73 years of publication history, and consequently there is a wealth of information held therein. The objective of this bibliography was to alert researchers to this core of information in the Journal, and also to allow them ready access to the information base through the use of indexes to specialised subject material.

Initially, this bibliography was to be completed by 1988, in time for publication as part of the 1988 Australian Bicentenary. However, other matters intervened, and the 1988 schedule was postponed. The process of listing and enumerating the numerous Journal articles was well under way by 1988, and therefore the original cut-off for the bibliography of Volume 70, 1988 was retained.

In addition to producing an alphabetical list of authors, year and articles, author index, and indexes to general and more specialised subject matter, we have attempted to summarize the trends over time in numbers of articles/papers published for the major disciplines. We have also subdivided subject matter in the field of geology, one of the most frequently published disciplines in the Journal.

Now that the basic bibliographic list is available, other researchers may use it as a means to investigate trends over time in their specialities, if they so desire. Copies of the data base on computer disc, and a quality print-out of the bibliography and index (for use in character scanning by optical devices), are lodged at the library of the Royal Society of Western Australia at in the Western Australian Museum, Francis Street, Perth, 6000. Future researchers are welcome to supplement this bibliography and to access the data set via computer. Computer disc copies are also available from the authors.

### History of the Royal Society of WA

A brief history of the Royal Society of Western Australia (Inc.) is presented below, drawn largely from the work of C F H Jenkins (1965: *Journal Royal Society of Western Australia* 48: 33-44) and L Summers (1982: "A guide to the minutes and correspondence series of the Royal Society of WA Inc", a thesis for the Diploma in Information Management; Archives Administration in Univ of NSW, a copy of which is held in the library of the Western Australian Museum).

The Royal Society of Western Australia developed from a small, unnamed Natural History Society in the late 19th century, primarily interested in the fauna of the State, to the more diverse and larger organisation that exists today. The

original scientific society was founded in 1891 and operated for about 4 years, and was active in the establishment of a native flora/fauna reserve. Despite early enthusiasm of its members, the Natural History Society eventually became moribund. In July 1897, inspired by the work of Von Mueller, the society reformed into the Mueller Botanical Society, which identified and classified many of the unique flora in the State, and published the list as an eleven part journal. As the membership of the society increased, so did its spheres of interest, and in 1903 the society was renamed "The Western Australian Natural History Society" to reflect this change. The proceedings of that society were published as a volume in six parts. In August 1909 the society became the "The Natural History and Science Society of Western Australia". This name was retained for a further 4 years.

In 1913 the society applied for the right to call itself the Royal Society of Western Australia, and applied for Royal Patronage. In November 1913 the right to use the name "The Royal Society" was granted, and this was followed in early 1914 by confirmation of the King's willingness to act as Patron. In 1915 the first volume of the Journal was published. In 1937, the Royal Society applied for, and received, permission to become incorporated. The approval from King George VI was conveyed to the Society through the agency of the Governor, who became Vice-Patron, and the King agreed to continue as the Patron of the Society.

Throughout its history, commencing in 1915, the Royal Society of Western Australia has produced a Journal, publishing the various papers dealing with scientific, agricultural, natural history and conservation matters of the State, and articles (such as letters, annual reports and proceedings). Jenkins (1965) describes the history of the Journal of the Royal Society of Western Australia, and also those journals and publications of its predecessor societies.

### Method of Presentation

This bibliography lists only those papers that were published in the Journal of the Royal Society of Western Australia, and not those papers published in predecessor journals (such as the Journal of the Proceedings of the Mueller Botanic Society of Western Australia, the Journal of the Natural History Society, and the Journal of the Natural History and Science Society).

There can be some confusion with regards to dates of Journal papers. Three types of dates are evident in the Journal. There may be one associated with the title page of a given paper; there may be a formal publishing date listed on the front cover of the Journal; and there also may be a third date that appears on the Journal cover that states the date that the Journal actually appeared. These three dates may not coincide. For this bibliography we used the date

associated with the title page of a given paper. It also is important to note that Journal volume numbers may not coincide exactly with years; some volumes spanned a number of years, and in one case three volumes were published in the one year (1948).

We have adopted a traditional approach in the presentation of this bibliography. The main bibliography lists authors, article title, Journal volume number and pages, and year of publication (as described above), and consists of over 800 articles, from Abbot to Wyrwoll, listed in alphabetical order. In addition, there is an author index, with cross-referencing of co-authors; a general and specialised subject index; and a location index. The choice of the subdivisions of the specialised subject matter index has been based on traditional boundaries, the range of material covered in the Journal, and our own familiarity with the subjects involved.

### Subject Matter Trends

We have analysed some of the trends or patterns in publications of papers in the Journal. Our approach to this was as follows:

1. perusal of title, abstract, and introduction of every paper in the bibliography to assign the paper to one of three major disciplines represented in the Journal: botany, geology, and zoology. Other disciplines such as chemistry, astronomy, archaeology, etc., are too sparse to warrant analysis;
2. classification of subject matter in the three major disciplines to a specialised sub-category, if appropriate (eg, aquatic botany, marine botany, etc). Classification of some of the subject matter was difficult because in many cases the specific paper covered subject matter that could be classified under a number of different headings - in these cases the paper was assigned to each of the specialised fields with which it dealt;
3. construction of a graph showing the number of articles or papers that were published in each of the major disciplines in five-year intervals during the period 1915 to 1985;
4. construction of a graph showing the types and number of the main specialised papers that were published in sub-categories of geology in five-year intervals over the same period as above, as an example to illustrate the trends of more specialised subject matter within a given major discipline. Future researchers are invited to analyse the more detailed trends of specialised papers in botany and zoology.

The trends of the numbers of papers published in the major disciplines of botany, geology and zoology are shown in Fig. 1. There has been a sub-equal contribution to the overall numbers of papers published in the Journal from each of the major disciplines, and the number of papers of all the major subjects generally have fluctuated similarly throughout the history of the Journal. The exceptions seem to be a major rise in proportion of papers in Geology published between 1940 & 1950, another rise in proportion of papers in Zoology published between 1960 & 1970, and the slight decline in Geology in the 1980's. The peaks and troughs of the graphs seem to bear little relationship to major events such as World War II. The Great Depression, between 1929 and 1935, may have been responsible for the first decline in numbers of papers published that began in the five-year blocks encompassing

1930-1940. There is a peak of publication during World War II, followed by the deepest trough in the numbers of papers published in the Journal between the period 1945-1955. From 1955 onwards the number of papers and articles published in the Journal steadily increased to the present, with some small scale fluctuation in the fields of geology and zoology.

The trends of the numbers of a selected variety of specialised papers published in the discipline of geology are shown in Fig. 2. As described above, specific papers often covered subject matter that could be classified under a number of different headings, and thus the paper was assigned to each of the specialised fields with which it dealt. Consequently, the cumulative total of specialised papers shown in Figure 2 does not agree with the total number of Geology papers shown in Figure 1.

The variation over time of the number of papers in the various specialised geological categories do not show consistent patterns. There are particular periods when a greater proportion of papers dealt with a particular speciality subject - this may have been due to specific authors who were active for a time, and then moved on, or retired, etc. For example, the study of meteorites was a common subject in the Journal in the years between 1960 and 1975; stratigraphic studies were at their peak of activity during the interval 1955-1965; and mineralogy was at its peak of activity in the period between the 1920's and 1940's. While some of these trends are due to highly productive authors working in the area of their speciality, others are a sign of increased research activity that accompanied state-wide and nation-wide exploration activities, and in conjunction with increased availability of research funds administered by the government and industry. Some increased activity in a given specialised subject also reflects the input and availability of newly developed technology and instrumentation at the time (eg, x-ray diffraction techniques).

*Acknowledgements.* M Triffitt kindly directed us to the reference of L Summers. L Kenny and M Desbureaux assisted with the production of this bibliography. We also thank I Abbott for the opportunity to complete this work.

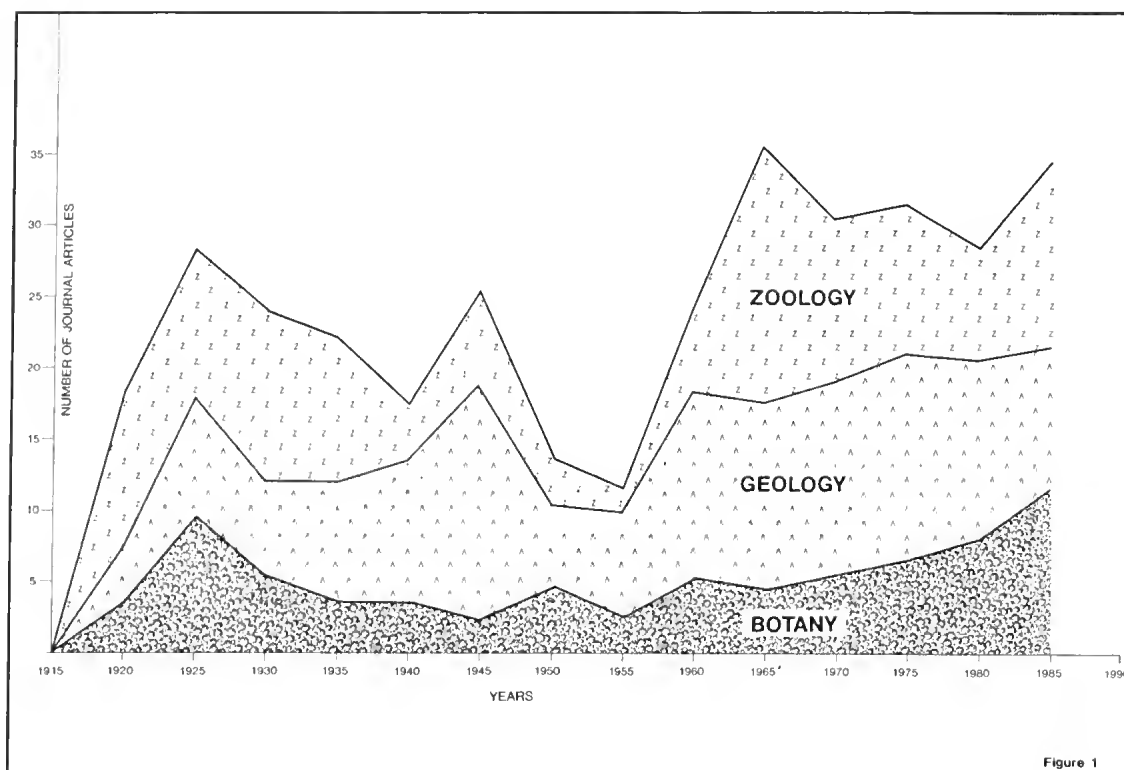


Figure 1. Graph showing the proportion of papers in the main disciplines of Botany, Geology and Zoology published in five-year blocks from 1915 to 1985.

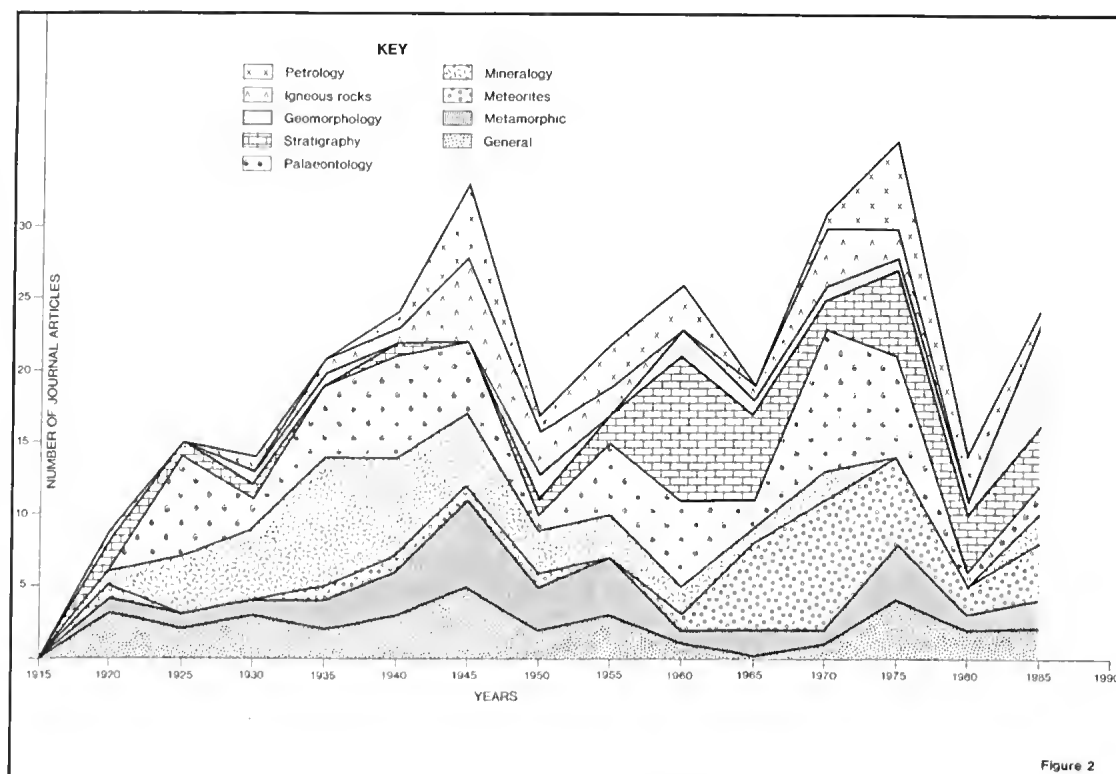


Figure 2. Graph showing the proportion of papers published (in five-year blocks from 1915 to 1985) in the selected various specialised categories in Geology. Note that a paper may be classified in more than one category if warranted. For example, the categories Igneous rocks, Metamorphic and Mineralogy include papers that deal with field, geochemical and microscopic-petrologic aspects. A paper may be classified in both Petrology and one of these categories if the microscopic-petrologic component is substantial. Papers that exclusively involve microscopic-petrologic studies in the fields of sedimentary, igneous or metamorphic rocks or mineralogy are classified only in Petrology.





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